	Application No.	Applicant(s)	
Notice of Allowability	10/693,415 Examiner	CHO ET AL.	
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The MAILING DATE of this communication approximately allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	in this application. If not included nunication will be mailed in due cours	
1. This communication is responsive to			
2. The allowed claim(s) is/are <u>1-18</u> .			
3. \boxtimes The drawings filed on <u>24 October 2003</u> are accepted by the	e Examiner.		
 4. Acknowledgment is made of a claim for foreign priority units. a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Applicat	ion No. <u>09/997,533</u> .	om the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requiren	nents
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			E OF
 CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the paper No./Mail Date 	son's Patent Drawing Revie s Amendment / Comment o .84(c)) should be written on he header according to 37 C	or in the Office action of the drawings in the front (not the back) FR 1.121(d).	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	SIT OF BIOLOGICAL MAT	ERIAL must be submitted. Note the Industrial Report of the Industrial R	ne
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 10/24/03	6. ☐ Interview S Paper No 98), 7. ☐ Examiner's	nformal Patent Application (PTO-152 Summary (PTO-413), ./Mail Date s Amendment/Comment	•
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examiner's 9. ☐ Other	s Statement of Reasons for Allowance —·	9
		Vu A. Le Primary Examiner Art Unit: 2824	

Application/Control Number: 10/693,415 Page 2

Art Unit: 2824

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: the present invention relates to page buffer memory device. The independent claims 1, 9, 12 and 17 recite a no-volatile memory device comprising a plurality of page buffers and a control logic configured to control the page buffers during a read operation, wherein the control logic is configured to control the bias and pre-charge transistors of respective page buffers to fix second sense nodes at a predetermine bias voltage during a first sensing period when voltages on the first sense nodes are being sensed. The RPIOR ART fails to suggest or disclose such a control circuit for a memory device having a plurality of page buffers as described in the independent claims 1, 9, 12 and 17, therefore, claims 1-18 are in condition for allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vu A. Le whose telephone number is (571)272-1871. The examiner can normally be reached on M-F (7:00-3:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on (571)-272-1869. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vu A. Le

Primary Examiner

Art Unit 2824

06/13/04